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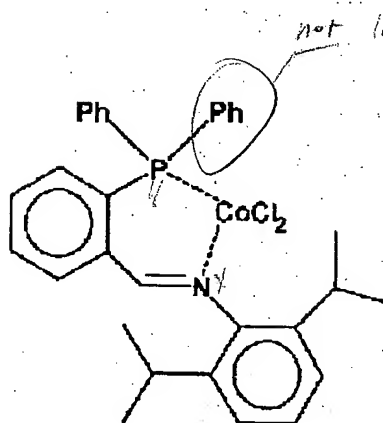
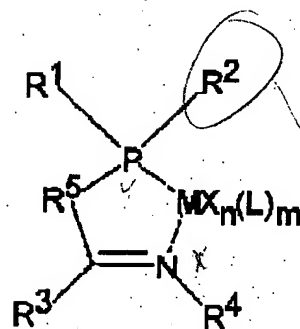
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APPLICANT : MITSUBISHI CHEMICALS CORP;

INVENTOR : SUGANO TOSHIHIKO;

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TITLE : NEW TRANSITION METAL COMPLEX
 COMPOUND AND CATALYTIC
 COMPONENT FOR POLYMERIZING
 ALPHA-OLEFIN



ABSTRACT : PROBLEM TO BE SOLVED: To obtain the subject new compound useful as a catalytic component for polymerizing an olefin.

SOLUTION: This compound is a one of formula I (M is a group VIII-X transition metal in the periodic table; R1 to R4 are each H or a 1-24C hydrocarbon, a 1-24C hydrocarbon containing a halogen, oxygen, nitrogen or sulfur; R5 is a divalent 1-20C hydrocarbon, or the like; L is a ligand; (m) is 0-5; X is H, a halogen or the like; (n) is 0-3; $1 \leq m+n \leq 5$; a dotted line is a coordinate bond), e.g. a compound of formula II. The compound of formula I, e.g. in the case of the compound of formula II, is obtained by adding 2,6-diisopropylaniline to a benzene slurry of 2-(diphenylphosphino)benzaldehyde, refluxing the obtained mixture, adding ethanol to the refluxing mixture to provide the ligand of 2,6-diisopropyl-N-{2-(diphenylphosphino)benzylidene}aniline, adding anhydrous tetrahydrofuran to a mixture of the obtained ligand with anhydrous cobalt chloride to react, and further adding diethyl ether to the reacted product.

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